Attachment #1- Scope of work

BIDS DUE COB 21 SEPTEMBER 2011

Landscaping (Trees and Lawn project), 99 Ludlam Crescent, Lower Hutt

Please note the following:

- Site inspection, before quoting, is strongly recommended
- All work must be undertaken as specified on the plans and in this document, unless otherwise agreed to between the contractor and the client, in writing.
- Areas, distances and quantities given in this document are approximations only. Therefore, please base your quotation on take-offs from the plans, along with on-site dimensions, and not from this document.

Quotes to include all materials and labor for all or any of the following as applicable to your company:

LAWN

Remove the existing back lawn, then once an irrigation specialist has installed an irrigation and drainage system (being contracted separately), prepare the ground fr instant turf (ensuring the ground is level and firm). Install a Fescue, Browntop and Rye turf mix from Instant Lawn (the Waikaenae Turf Farm quality or better). The existing stepping stones remain. Approximately 439.56m2 of lawn to install.

BACK YARD SE CORNER ("CHESS AREA")

- Additional bed of 8.7m long and 500mm wide to be created along the fence at the eastern side of the 'chess patio'. Soil to be worked and improved as per the other beds.
- 8.7m long brick bed edge on the outside of the bed (bringing the total width to 600mm), build bed edge to match the others.
- Bed to be planted with 10 x Viburnum Tinus 'Eve Price', PB6.5.
- Proposed benches and pots moved in and re-spaced accordingly.

PLANTS

-Source and deliver all plants, as per the "Plant Schedule" document. No variation from the listed varieties and sizes will be accepted without approval from the Client.

(Plant Schedule follows)

PLANT SCHEDULE AND MAINTENANCE PLAN

To be read in conjunction with Planting Plan number EGD11101.

Location: 99 Ludlam Crescent, Lower Hutt

Туре	Name	Qty	Min. Grade	Maintenance Guide
Tree	Alectryon excelsa (Titoki)	3	1000 lit (one is	No specific requirements.
			around	
			5.1m x	
			3.2m and	
			two are	
			around	
Т	Manualia	1	4.6m x 3m) 1000 lit	Description in Triant
Tree	Magnolia grandiflora	1	(around 4.3	Responds well to pruning. Trim the lower limbs to create the best shape.
	'Ferrugenia' (Bull		x 2.8m)	Fertilize Autumn.
	Bay)		X 2.0111)	Pertinze Autumn.
Tree	Metrosideros	2	1000 lit	If pruning, be judicious, as it does not
	'Mistral'	-	(one is	bud readily. Mulch to improve
	(Pohutukawa –		around 4.8 x	growth, but keep this clear of the
	Rata cross)		2.2m and	trunk.
			the other is	
			around 4.1 x	
			1.8m)	
Tree	Olea europaea	4	400 lit	No specific requirements. Edible fruit.
	'Ascolano' (Olive)		(around 4 x	
			1.8m)	
Shrub	Camellia sasanqua	12	PB8	Intolerant of lime. Keep moist during
	'Paradise Little			the summer. Responds well to
	Liane'			clipping.
Shrub	Leptospermum	3	PB6.5	Watch for sooty mould and
	flavescens 'Little			caterpillars. If pruning, do it
	Bun' (Dwarf			judiciously, as it only readily buds
G1 1	Manuka)	1	DD10	from new growth.
Shrub	Pseudopanax	3	PB12	Prefers free-draining soil. When
	lessonii			pruning, prune back to a leaf node.
	'Purpureum' (syn. P. l. "Black			
	Knight') (Houpara)			
Shrub	Rhododendron	3	PB12	Requires a moist, free-draining, fertile
Siliuo	'Blue Peter'		1 1 1 1 2	and acidic soil. Intolerant of lime.
	Blue I etel			Watch for red spider mites. Poisonous
				if eaten.
Shrub	Viburnum davidii	6 (three	PB6.5	Prune lightly for the best shape.
	(David's	male,	and the second of the	Mulch in the spring. Water well in the
	Viburnum)	three		summer.
		female)		
Shrub	Viburnum tinus	4	PB6.5	Mulch each spring. Water well in
	'Eve Price'			summer. Prune lightly to keep a good
	(Laurustinus)			shape.
Perennial/	Libertia 'Taupo	8	PB5	Old leaves can be pulled out if desired
Grass/Flax	Sunset' (NZ Iris)			(although you should hold the base
				whilst doing this, as it is a shallow-

				rooting species). Mulch well, but keep it clear of the plant itself.
Perennial/ Grass/Flax	Lomandra longifolia 'Tanika' (Basket Grass)	5	2.5 lit	No specific requirements.
Perennial/ Grass/Flax	Phormium 'Bronze Baby' (Flax)	13	PB5	If you wish to remove old leaves they can be pulled out, not cut. Watch for slugs, scale and leaf spot.
Perennial/ Grass/Flax	Phormium cookianum (Mountain Flax)	6	PB6.5	If you wish to remove old leaves they can be pulled out, not cut.
Perennial/ Grass/Flax	Phormium 'Dusky Chief' (Flax)	5	PB6.5	If you wish to remove old leaves they can be pulled out, not cut. Watch for slugs, scale and leaf spot.
Fern/Palm/Cycad	Phoenix roebelenii (Dwarf Date Palm)	5	PB12	No specific requirements.

Note: All beds are to have a cambium bark mulch.

CLEARING & PRUNING

- Remove the existing pergola, protecting the timbers for reassembly in the neighbouring property (reassembly is outside the scope of this job).
- Clearing for the new bed areas will involve:
- o Removal of small pavers (approx. 9.76m2, laid on sand and basecourse)
- o Removal of turf (approx. 13.75m2)
- Removal of existing planting not marked on the plan as 'existing' (this includes the
 planting around the base of the Cabbage Tree and the low planting in the corner by
 the gazebo
- Two of the existing Lemonwoods will need their lower limbs removed, to match the central Lemonwood (limbing them up from around 25cm at present, to around 70cm).

RAISE THE DRAIN

- The existing drain in the patio will need to be raised slightly so that its top is higher than the finished level of the bed (standing proud of the mulch).

BED EDGE

- Build a brick bed edge to match the existing one (existing sections that will remain in the same position do not need to be re-built – approx. 23.5 linear metres of the existing edge will remain untouched). The edge will stand proud of the paving and lawn by around 4cm (as per the existing edge). Approx 24.13 linear metres of new edge will be required.

PLANTING THE POTS

 The Clients will purchase 5 pots of around 60cm diameter and height. You will need to set them in position, apply a drainage layer of grit at the bottom of each, fill the pots with a good quality potting mix and plant each with a PB12 Phoenix roebelinii (as per the Plant Schedule and Plan)

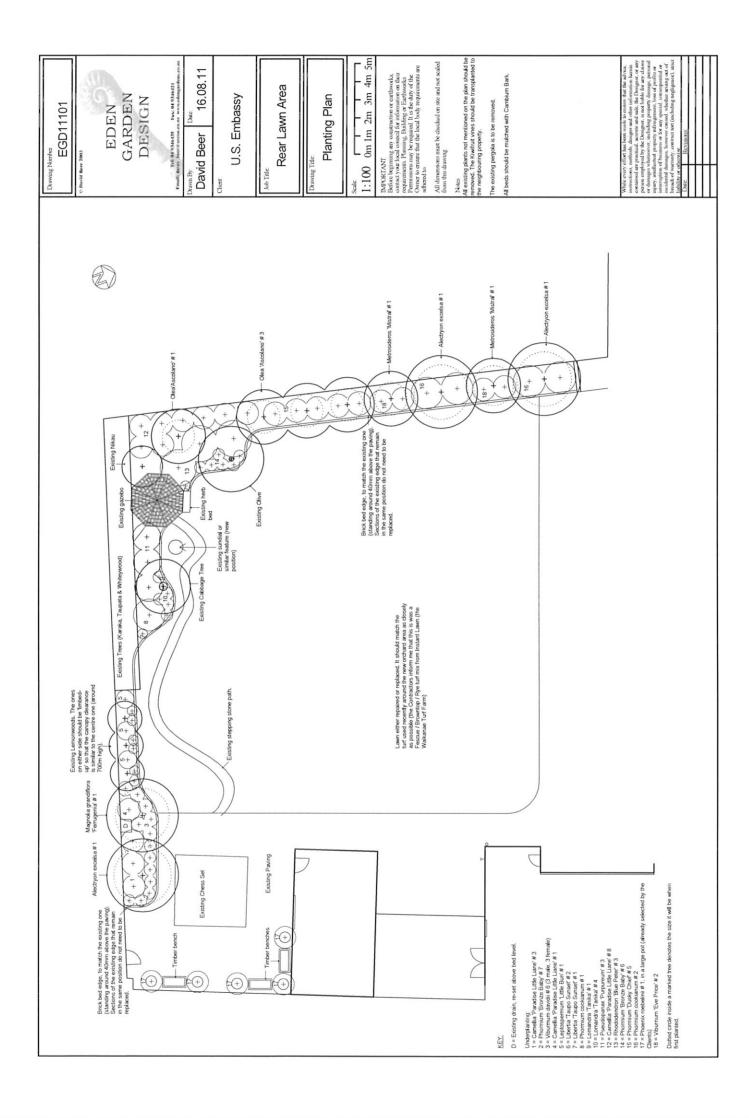
PLANTING THE BED AREAS

- Plant the listed plants and trees in holes that are 1/3 bigger than the root ball, using gypsum and grit, along with a 100mm layer of compost and sheep pellets (to improve the structure of the clay soil), all dug into the base of the planting station and further quantities applied around the sides of the root ball. This is important as the soil in parts of this area is heavy clay and the structure and drainage needs as much improvement as possible, particularly as the trees are very expensive. 78 plants as per the plan:
- o 6 x 1000lit trees (4.3 5.1m high)
- o 4 x 400lit trees (4m high)
- 68 x PB5 PB12 plants for underplanting.

MULCHING

- Apply a 50mm thick layer of cambium bark mulch to all bed areas and the pots. Approx. 83.6m2 of bed area to mulch (including the pots).

Prepared by David Beer, of Eden Garden Design



Specification for Landscaping Work

General Index

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B – Hard landscape					
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C – Plants and Planting					

Shrubs & Perennials

Existing trees and plants Turf Lawn

Trees

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Preliminaries and general conditions

A1 Project identification

A101 THE PROJECT:

Name of the project:

99 Ludlam Crescent Trees Lawn

Address of the site:

99 Ludlam Crescent

Lower Hutt

A105 DESCRIPTION OF THE WORKS

The work includes clearing of the areas to be planted, including the removal of a pergola. Hard landscaping work is limited to raising a drain and building a brick bed edge. A turf lawn will be installed in a second phase. The soft landscaping includes bed preparation, planting large trees, along with an underplanting of shrubs and perennials, then laying a bark mulch.

A110 QUOTATION DOCUMENTS shall consist of:

A115 Client means:

U.S. Embassy

29 Fitzherbert Terrace

Thorndon Wellington

Contact is Sue Raymond:

. . .

Tel: 027 444 5668

Email: raymonds@state.gov

A120 DESIGNER or GARDEN DESIGNER means

David Beer

Eden Garden Design

P.O.Box 14204

Kilbirnie

Wellington

Tel: 04 934 6438

Fax: 04 934 6421

Email: davey beer@orcon.co.nz

A125 CONTRACTOR or LANDSCAPE CONTRACTOR means the Contractor whose Quotation has been accepted.

A127 INTERESTED CONTRACTOR means a person who is going to provide a Quotation.

A130 SITE PARTICULARS

Interested Contractors are advised to visit the site by prior arrangement with the client in order to familiarize themselves with the access, ground conditions and available facilities. Contact Sue Raymond to arrange a visit, it necessary.

A135 WORKING AREA

The area of the site for occupation by the Contractor is shown on the drawing numbered above.

A140 PRACTICAL COMPLETION

Practical Completion will be reached when the Contractor agree that all the Contract Work has been completed in a satisfactory manner. Practical Completion does not preclude any remedial work that may become necessary during the Defects Liability Period or any other work that was previously agreed to extend beyond Practical Completion.

A2 The Contract

A201 FORM OF CONTRACT

The Contract will be in the form of a signed acceptance, by the contract of a completed Quotation Form.

A202 CONTRACT DOCUMENTS shall be:

- the Quotation Documents
- the Quotation Form as completed by the Interested Contractor whose quotation has been accepted
- the Employer's letter of acceptance

A215 SCOPE OF THE CONTRACT

The Quotation shall include the cost of all equipment, labour and materials necessary to complete the Works, as set out in the Quotation Documents, by the stated date for Completion.

A220 STATUTORY REGULATIONS

The Contractor shall comply with all statutory regulations that apply to the Works and pay all fees and charges.

A3 Quoting

A301 QUOTATION PROCEDURE

The Interested Contractor must submit his Quotation in writing in accordance with the procedure in the letter of Invitation to offer a Quotation, by COB 21 September 2011

A305 AVAILABILITY OF PLANTS AND MATERIALS

Quotations must be based on materials which will be available when needed. If materials as specified are not available or it can be anticipated that they will not be available when required, Interested Contractors must submit a priced schedule of the alternatives that they have incorporated in their Quotation.

A310 CONTRACTORS SPECIFICATION SUGGESTIONS

Interested Contractors are encouraged to submit separately priced suggestions to modify the specifications where they consider these would be to the advantage of the Color Such suggestions will not be binding on the Foliant unless specifically accepted in writing. If and when accepted they will be treated as Variations and the Contract Sum adjusted accordingly.

A315 FIXED PRICE

The Quotation must be for a fixed price and no additional payment will be made for cost fluctuations of any kind.

A320 DISCREPANCIES

All queries regarding the true interpretation of the Quotation Documents should be resolved with the latest before submitting the Quotation. If discrepancies come to light after the acceptance of the Quotation, the information shown on any drawing will take precedence over the Specification or Schedule.

A4 Management of the Works

A401 FOREMAN

At all material times a competent foreman must be on site to supervise the Works.

A410 MATERIALS ON SITE

Materials for the Works which have been delivered to the site on instruction from the Contractor will remain the property of the Contractor until Practical Completion. Materials which have been delivered to the site on instruction from the I remain the property of the Employer. In either case the Contractor is responsible for the materials until Practical Completion.

A415 ORDERING

The Contractor will place orders for goods and materials in good time so that the Works are not delayed. No extension of contract period will be allowed where delay could reasonably have been avoided by the Contractor.

A420 PROGRAMME AND PROGRESS REPORTS

Before commencement on site the Contractor will provide the Lagrant with a programme of work showing dates for all main operations and the number of staff to be employed daily on the Works.

The Contractor will keep the programme updated and reissued at monthly

The Contractor will keep the programme updated and reissued at monthly intervals.

- A425 USE OF THE SITE by the Contractor shall be solely for carrying out of the Contract Works.
- A430 WORKING HOURS to be 08:00 to 18:00hrs Monday to Friday. No work is to be executed on site outside of these hours without specific approval.
- A435 NOISE is to be kept to a minimum. Radios or CD players are not permitted to be operated at volumes that may be considered a nuisance by others.

A440 LIAISON WITH OTHER CONTRACTORS

The Contractor is expected to co-operate and liaise with any other contractors on site to ensure that the Works proceed safely and efficiently.

A450 INCOMPETENCE OR MISBEHAVIOUR OF WORKMEN

The Contractor shall comply with any reasonable request of the Designer to permanently exclude from the Works any person employed thereon.

A5 Quality and Safety

A501 NEW ZEALAND STANDARDS AND CODES OF PRACTICE

Where Quotation Documents do not fully detail the quality of the Works, the Contractor shall comply with current good practice as defined by New Zealand Standards or in the absence of a New Zealand Standard by any Codes issued by relevant trade organisations.

A505 PROTECTION

The Contractor must adequately protect all existing landscape, buildings and public and private roads from damage caused by the carrying out of the Works. Damage is to be made good at the Contractor's expense.

A510 SAFETY

The Contractor shall comply with all health and safety regulations. Before using any substance which may present a hazard the Contractor must carry out a Risk Assessment and keep the record available on the site for inspection. The Contractor must ensure safe working methods are used.

A515 UNDERGROUND SERVICES

The Contractor must make all necessary enquiries from the Utility Authorities and locate the exact position of underground services using hand digging before starting work. No mechanical digging is to take place

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within 0.5m of gas or electrical services. The Contractor shall follow the guidance issued by the Utility Authority when working close to underground services.

A520 DAMAGED UNDERGROUND OR OVERHEAD SERVICES

If damage is caused to gas or electricity services the Contractor must act immediately to:

- remove all persons from the vicinity
- notify the service Authority by phone and comply with their safety instructions

A525 STORAGE AND USE OF PLANT AND MATERIALS

- to be in accordance with the manufacturer's written recommendations
- when stored on site, to be in a position approved by the Edient

A530 HERBICIDES AND PESTICIDES

The Contractor shall:

- ensure that only Certified Applicators apply these chemicals
- not allow the use of paraguat or diguat weedkillers
- ensure that these chemicals are stored in a locked secure space in clearly marked containers
- notify Ise Raymond before application, when and where these chemicals are to be applied, and receive approval.

A6 General requirements

A600 PAYMENT

At the times or stages specified for payment the Contractor shall submit his claim to the ledient which shall be payable by the claim to the Contractor within 30 days.

A603 CONTINGENCY AND PROVISIONAL SUMS

Any contingency or provisional sums shall only be expended on the written instruction of the Licht

A605 GOODS AND SERVICES TAX

All Contractor's claims for payment under this contract shall show any GST due separately and the with shall pay to the Contractor all GST properly charged for the supply of goods and services.

A610 CONDITION OF THE SITE

Before work commences, the Contractor must agree with the Employer the condition of the site and site access and any discrepancies with the description in the Contract. Photographic record must be made if requested.

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A615 TEMPORARY WORKS

The Contractor shall provide all necessary offices and secure storage or agree with the Employer on the use of existing facilities.

A620 SITE CLEANLINESS

The Contractor shall keep the site clean and tidy and remove rubbish from the site periodically. Chargeable pallets and packing cases must be returned to the appropriate consignor.

A625 SAMPLES

The Contractor shall provide samples for approval when requested or specified. Approved samples must be kept on site for quality control purposes until completion of the Works.

- A630 APPROVAL and words derived therefrom shall mean the written approval of the Employer.
- A640 OR OTHER EQUAL AND APPROVED: shall mean that the Contractor is at liberty to propose an alternative similar product which may be approved by the Employer and the Contract Sum adjusted as appropriate, but the Quotation must be based on the product originally specified.

A645 ADVERTISING AND PUBLICITY

Approval must be obtained before displaying any sign board or publishing any article or photograph of the Works.

B Hard landscape – Workmanship and materials

B1 General preamble

B100 SETTING OUT

The Contractor shall:

- provide and use suitable instruments for accurately setting out the Works
- clearly define all boundaries between different elements of the design and obtain approval from the direct reference starting any subsequent construction or planting work

B105 FIRES

No fires are permitted on site without specific approval.

B2 Excavation and filling

B201 GROUND WORKS PERMISSIONS

The Contractor shall check with the Local Authority regarding the removal or addition of soil or fill, and the alteration of ground levels. Permits or Local Authority approval must be obtained if required.

B205 SITE CLEARANCE

All scrub, undergrowth, unwanted trees and plants, roots, weeds, stones larger than 60mm, concrete, brick, tile and other unwanted material shall be removed to an authorised tip.

B210 COMPACTION/DAMAGE BY PLANT

Plant must not run over spoil heaps

B212 PROTECTION OF TREES

Trees on the site which are to remain must be protected from damage.

- provide a 1m high fence to enclose the spread of the crown
- avoid compaction of the soil by plant or storage or spillage of materials
- do not reduce or increase soil levels within the fenced zone
- do not cut a root over 25mm diameter or damage bark
- use trenchless or hand excavation within the fenced zone

B225 EXCAVATIONS must be kept free of water.

B230 EXISTING TOPSOIL

Existing topsoil must be removed from areas to be regraded and from areas to be paved. Topsoil shall be stored in heaps not more than 1m high and kept free of contamination.

B235 SUB-SOIL

Store sub-soil clear of topsoil in separate heaps not more than 1m high. Subsoil in excess of requirements shall be removed from site.

B240 IMPORTED TOPSOIL to be:

- medium loam with a neutral pH value
- stone size to pass a 40mm sieve and stone content to be not more than 10%
- free of sub-soil, weed seed, perennial weeds or poisonous substances
- stacked on heaps not more than 1m high

B245 SPREADING OF TOPSOIL

Top soil shall be spread to the following depths:

- grassed areas 100mm

- shrub areas 300mm, or as much as is possible if the gradient prohibits this.

Graded slopes to be of even gradient without puddles and kept 50mm above bordering hard surfaces to allow for settlement.

B3 Concrete

B300 MATERIALS FOR CONCRETE must conform to current New Zealand Standards for concrete.

B305 CONCRETE PROPORTIONS

The proportions of cement, aggregate and sand must be in accordance with current New Zealand Standards for concrete and be suitable for the application.

B325 PLACING AND MIXING CONCRETE

- use a batch mixer of an approved type or use an approved readymix supplier
- place as soon as practical after mixing and before the initial set takes place
- compact thoroughly and achieve a level surface after compaction unless falls are specified

B330 CONCRETING IN COLD WEATHER

- do not use frozen materials
- do not lay concrete against frozen formwork or frozen excavation
- concrete temperature must be no lower than 5 degrees Celsius at time of placing and must be maintained at this level for at least 3 days

B335 CONCRETE CURING

Protect new concrete from frost, wind, snow or hot sun by covering with polythene sheet for a minimum of 7 days. Do not allow any wheeled traffic on concrete bases or drives for 14 days.

B340 RAISING THE DRAIN

Location: See EGD11101

The top of the drain should be higher than the mulch covering the bed area. Concrete blocks can be used in place of poured concrete if deemed more economical.

B4 Brick Work

B400 MORTAR MIXES of cement : sand : lime

- for general purpose 1:1:6 or 1:2:8

- for copings, foundations and work up to 150mm above ground level 2:1:8

B405 MORTAR

Store lime and cement in a ventilated dry store clear of ground level.

Batch mortar proportions by volume using gauge boxes.

In cold weather do not use frozen materials and rake out and repoint all frost-damaged mortar.

Mortar plasticisers where specified are to be of the air-entraining type and used according to manufacturer's instructions.

B435 PROTECTION OF BRICKS AND BRICKWORK

- handle bricks with care to prevent chipping
- stack bricks clear of the ground on level, hard standing
- keep stacks covered to protect from rain and keep clean
- cover new brickwork with a board and polythene sheeting to protect from rain and frost
- do not lay bricks when the temperature is 6°C and falling
- keep new work clean

B450 JOINTING

Facework to be jointed to an approved profile. Work not visible to be struck off with the trowel as work proceeds.

B470 BRICK BED EDGE

As in EGD11101

Bricks: to match existing bricks as closely as possible.

Pattern: to match existing bed edge. Base course thickness: 100mm

Bedding & joints: Mortar

C Plants and Planting – Workmanship and Materials

C1 Shrubs & Perennials

C105 PREPARATION FOR PLANTING

- remove unwanted existing plants including their roots
- correctly apply an approved weedkiller, protecting existing plants that are to remain
- rotovate ground and remove weeds and stones over 50mm in any dimension.

C125 PREPARATION OF PLANTS

Remove inorganic containers. Check for damage, disease or pest infestation and reject seriously damaged plants. Carefully prune any minor root damage.

C130 PLANTING

- plant in position shown on drawing or in absence of drawings space evenly at the rate specified, avoiding regimented rows
- plant in holes large enough to allow adequate root spread, 1/3 larger than the root ball
- excavate holes at least 100mm below the root system and a minimum depth of 400mm for climbers. Dig in grit, gypsum, compost and sheep pellets and backfill to the required depth
- set plants so that their original soil level matches the new surrounding ground and with their best side displayed

C135 BACKFILLING

Backfill to be good quality topsoil thoroughly mixed with compost and sheep pellets in the recommended quantity. The backfill is to be evenly worked round the roots and well heeled in.

C140 IMMEDIATELY AFTER PLANTING

Prune back damaged or malformed growth and where appropriate prune to compensate for root reduction and to encourage growth. Rake soil to an even, fine tilth to the required levels.

C155 PLANTING SEASON

Plant out non-container grown plants and transplants only between May and August inclusive unless otherwise agreed. Container grown plants may be planted at any time provided it is not excessively wet, cold or windy. Do not plant into waterlogged ground or when temperatures are approaching freezing.

C160 WATERING

Saturate the root ball of container grown plants before planting. Thoroughly water plants immediately after planting and again before mulching.

C165 MULCHING

Loosen soil over area to be mulched. Apply a 50mm layer of cambium bark before Practical Completion. Keep mulch clear of stems.

C2 Trees

C201 TREE QUALITY

Trees shall be of good quality, with well developed roots, a straight single stem, and be free from damage and disease.

Cut back any damaged roots to sound growth and treat cut with fungicide.

C205 TREE STAKES

75mm minimum diameter, free of bark, untreated with one end pointed.

C210 TREE STAKING

Drive two stakes upright 450mm into bottom of planting hole close to the edge of the root ball, on either side side. Cut stakes off slightly below the first crotch and secure tree with approved ties with spacers positioned at the top of the stake and at mid-height.

C215 PLANTING TREES

- plant upright and in the exact position shown on the drawing
- holes must be large enough to allow adequate root spread 1/3 larger than the root ball
- excavate holes at least 100mm below root system. Dig in grit, gypsum, compost and sheep pellets and backfill to the required depth
- set plants so that their original soil level matches the new surrounding ground and with their best side displayed

C220 BACKFILLING

Backfill to be good quality topsoil thoroughly mixed with compost and sheep pellets in the recommended quantity. The backfill is to be evenly worked round the roots and well heeled in.

C225 PRUNING

Immediately after planting prune to improve shape and encourage growth according to species. Remove damaged or weak growth.

C230 PROTECTION

Water thoroughly immediately after planting and at intervals as necessary until Practical Completion or until the end of the defects liability period whichever is the later. After the first watering, mulch with a 50mm layer of approved mulching material over the excavated area.

C3 Existing Trees and Plants

C310 PROTECTION OF EXISTING TREES AND SHRUBS

Existing trees and plants that are to remain must be adequately protected from damage.

- No fire shall be lit where damage could be done.
- No vehicles or heavy plant shall be allowed within the area covered by the canopy unless the roots are protected in an approved manner.
- No branch or root over 50mm diameter shall be cut without approval.
- No storage of plant, materials, spoil heaps or rubbish shall be allowed within the area covered by the canopy.

C315 CONTRACTOR'S LIABILITY FOR DAMAGE

Plants damaged by the Works are to be repaired or replaced with equal

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approved species at the next suitable planting season at the discretion of the Employer and at the Contractor's cost. Any replaced trees or shrubs shall be maintained by the Contractor for 12 months.

C320 SITE CLEARANCE

Do not burn vegetation on site without approval.

C325 SUPERVISION OF TREE WORK

The removal of major branches or felling of trees over 6m high and similar operations shall only be carried out by tree specialists.

C330 BRANCH REMOVAL

Cut branches close to the stem and pare down edges of large branches to smooth in the contours and encourage healing.

Avoid moisture traps and horizontal surfaces.

Fill small hollows with an approved fungicidal sealant.

Remove heavy branches in smaller sections.

Dead wood or damaged wood will always be removed whether or not specifically scheduled.

C335 LIFTING THE CROWN

Remove branches from the main trunk or from vertical branches so that the space below the canopy is clear up to the specified height.

C340 REDUCING AND SHAPING

Carefully select and remove branches and prune subsidiary branches so that the height and/or spread are reduced to the specified dimensions without destroying the shape and character of the species.

C345 TREE REMOVAL

Tree removal means the complete removal from site of all arisings including stumps and root systems down to 500mm below finished ground level, unless otherwise stated on the plans or in the Schedule.

C4 **Turfing**

C401 TURF QUALITY

Location: as per EGD11101

quality or better Turf to be obtained from Instant Lawn (The Waikaenae Turf Farm). Use their Fescue, Browntop and Rye mix instant turf, with a representative sample being supplied to site for approval.

C405 DELIVERY

Delivery to be timed to ensure laying within 48 hours of lifting. Stacks are not to exceed 1.4m high. Delivered turf must be protected from drying out. rain, frost or damage.

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C410 PREPARATION FOR TURFING

Cultivate topsoil to a minimum depth of 100mm. Reduce top 30mm to a fine tilth and remove all weeds, rubbish and stones over 30mm in any dimension.

C415 FERTILISER

Dress areas to be turfed with an appropriate lawn fertiliser applied at the recommended rate and work into the top 30mm of tilth 7 days before turfing. Water in well.

C420 LAYING TURF

- to transport turf over newly laid turf, place close butted timber planks for walking on
- lay turf in consecutive rows with timber planks protecting previously laid turf
- lay turf close butted staggering the joints in alternate rows
- use whole turfs at all margins
- consolidate lightly with wooden beaters and brush in finely sieved topsoil to fill all joints

C425 TURFING ADJACENT TO OBSTRUCTIONS

- leave a neat 300mm radius of soil round all newly planted trees
- unless otherwise shown on drawing, turf right up to existing established trees, walls, fences and similar obstructions, leaving no soil uncovered

C435 MAINTENANCE

Undertake all required maintenance until the lawn is properly established or until Practical Completion, whichever is the later. Give the Employer written instructions about ongoing lawn care.

End of Specification

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